

DERWENT-ACC-NO: 1991-206971

DERWENT-WEEK: 199128

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TITLE: Electronic stringed instrument e.g. guitar - has tremor-arm, string-bending and vibration sensors, programmable function assigning circuit and controlled effector

INVENTOR: IBA, A; MANABE, H ; MURATA, H

PATENT-ASSIGNEE: CASIO COMPUTER CO LTD[CASK]

PRIORITY-DATA: 1988JP-0220558 (September 5, 1988) , 1987JP-0253230 (October 7, 1987) , 1987JP-0253231 (October 7, 1987) , 1987JP-0253235 (October 7, 1987) , 1987JP-0256024 (October 9, 1987) , 1987JP-0259243 (October 14, 1987) , 1987JP-0259292 (October 14, 1987) , 1987JP-0259786 (October 16, 1987)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES
MAIN-IPC			
US 5025703 A	June 25, 1991	N/A	000 N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
US 5025703A	N/A	1988US-0256398	October 7, 1988

INT-CL (IPC): G10H001/32, G10H005/00

RELATED-ACC-NO: 1992-225629

ABSTRACTED-PUB-NO: US 5025703A

BASIC-ABSTRACT:

The instrument employs a number of sensors or monitors for instrument performance. Preferred sensors or monitors sense that a string of the

instrument is vibrated. An appts. evaluates a string-vibration strength or a string touch and discriminates a fret operation position on a fingerboard or a fundamental frequency of a vibration of the vibrated string. A tremolo arm sensor and a string-bending sensor are also provided.

These performance input parameters are assigned to various control functions for musical tones generated by a sound source and/or various control functions for effects added to these musical tones by an effector. The function assignment is pref. programmable. The sound source and/or effector are controlled in response to a performance monitor so that musical tones for the strings can be distinguished from each other or effects for the tones can be distinguished from each other.

ADVANTAGE - Performance with instrument by player can be fully expressed.

ABSTRACTED-PUB-NO: US 5121669A

EQUIVALENT-ABSTRACTS:

An electronic stringed instrument employs a number of sensors or monitors for instrument performance. Preferred sensors or monitors include a detector for detecting that a string of the instrument is vibrated, an apparatus for evaluating a string-vibration strength or a string touch, an apparatus for discriminating a fret operation position on a fingerboard or a fundamental frequency of a vibration of the vibrated string, a tremolo arm sensor, and a string-bending sensor.

These performance input parameters are assigned to various control functions for musical tones generated by a sound source and/or various control functions for effects added to these musical tones by an effector. The function assignment is preferably programmable. In operation, a music control apparatus, controls the sound source and/or effector in response to a performance monitor so that musical tones for the strings can be distinguished from each other or effects for the musical tones can be distinguished from each other.

USE - E.g. guitar synthesizer.

CHOSEN-DRAWING: Dwg.8/61 Dwg.1/66

TITLE-TERMS: ELECTRONIC STRING INSTRUMENT GUITAR TREMOR ARM
STRING BEND
VIBRATION SENSE PROGRAM FUNCTION ASSIGN CIRCUIT
CONTROL EFFECTOR

DERWENT-CLASS: P86 W04

EPI-CODES: W04-U02; W04-U03;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1991-158033